

BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: July 17, 2002

Division: Public Works

Bulk Item: Yes x No

Department: Facilities Maintenance

AGENDA ITEM WORDING: Approval to purchase and install one (1) Key West Marine Park Sign for Higgs Beach.

ITEM BACKGROUND: The Key West Marine Park Project is a cooperative venture between the City of Key West and Reef Relief. The boundaries of the marine park extend from the White Street Pier to Duval Street and include three swim lanes and two vessel access lanes marked with buoys. Signage and educational brochures are being designed and Reef Relief has requested that the County purchase and install a prototype graphic information sign at Higgs Beach which includes a map of the park, rules, sponsors' logos and the Monroe County seal.

PREVIOUS RELEVANT BOCC ACTION: none.

CONTRACT/AGREEMENT CHANGES: n/a

STAFF RECOMMENDATION: Approval as stated above.

TOTAL COST: Approx. \$2,000


BUDGET: Yes x No

COST TO COUNTY: same

REVENUE PRODUCING: Yes No x **AMOUNT PER MONTH** **YEAR**

APPROVED BY: County Atty. OMB/Purchasing Risk Management

DIVISION DIRECTOR APPROVAL:

 7/2/02
Dent Pierce, Public Works Director

DOCUMENTATION: Included: x To Follow: Not Required:

DISPOSITION: **AGENDA ITEM#** C44

REEF RELIEF

a non-profit membership organization dedicated to
Preserve and Protect Living Coral Reef Ecosystems
through local, regional and global efforts

June 19, 2002

Dent Pierce, Director of Public Works
Monroe County
1100 Simonton Street, Room 2-231
Key West, Florida 33040

Rec'd
6/24/02

Re: Key West Marine Park Signage for Higgs Beach

Dear Mr. Pierce

The Key West Marine Park project, a cooperative venture between the City of Key West and Reef Relief, is slowly becoming a reality. The demarcation buoys to mark the no motor swim lanes and vessel access lanes are installed and the city ordinance establishing the no motor zones can now be implemented. The park boundaries extend from the White Street Pier (angles out from the pier to allow fishing activities to continue) to Duval Street. There are three swim lanes and two vessel access lanes.

The next step is to produce educational materials to support the park. Signage and an educational brochure are being designed. We plan to install signs along the boundaries of the park at South Beach, on the private upland resorts, and one at Higgs Beach.

This letter is to request your support for this project by funding the cost of producing and installing one sign for installation on Higgs Beach. Enclosed please find a prototype graphic design layout for the sign along with materials provided by the sign manufacturer showing the sign to be used. The manufacturer will charge \$1600 for the sign, plus shipping and installation. Reef Relief will pay any other expenses.

The sign for Higgs Beach would be sized 42" wide by 48 3/8" high, on an aluminum frame system that extend another 28" from off the ground. The company that we will order them from has a long list of happy clients and I have actually seen a sign made by them for the Schooner Western Union. They are constructed of a fiberglass embedded design that is fire and fade resistant, shatterproof, and will include full color graphics including a map of the park, rules, sponsors logos, including the Monroe County logo, which we would request that you provide.

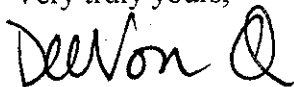
The site brochure for the Key West Marine Park will include similar information and will be produced in full color. The county logo will also appear on the brochure. I plan to contact all of the upland property owners along the park shores and install signs on each property. Together with the sponsorships from these upland property owners, we hope to print at least 75,000

Reef Relief Environmental Center & Store
201 William Street, P.O. Box 430, Key West, Fl. 33041
(305) 294-3100 fax (305) 293-9515
www.reefrelief.org email: reef@bellsouth.net

brochures to distribute over the next year.

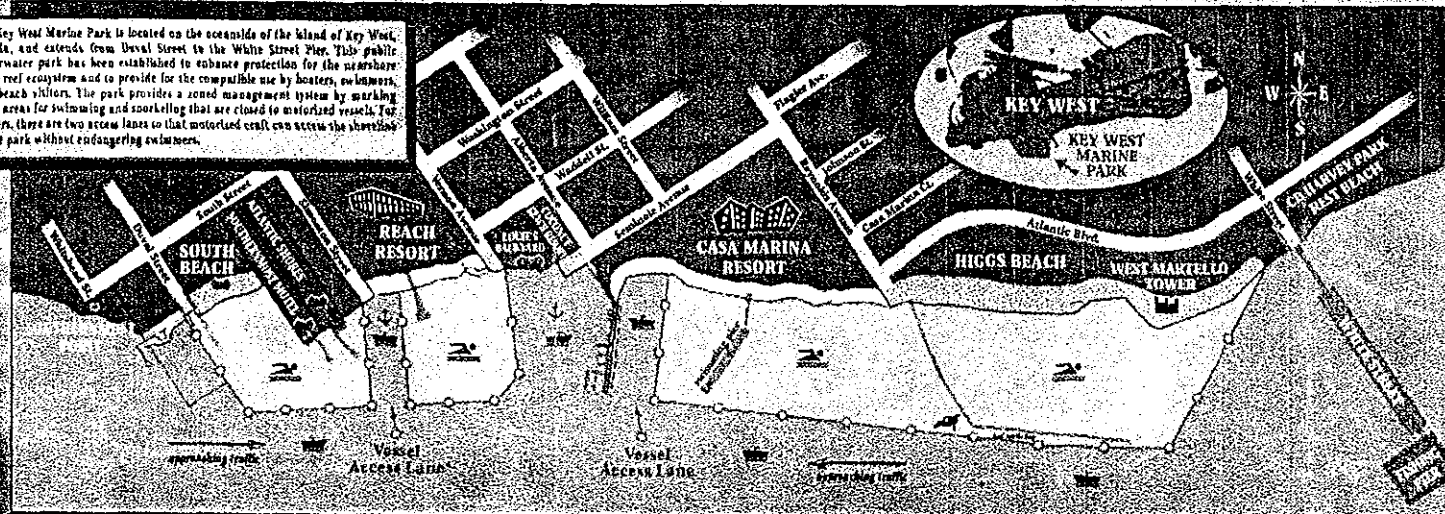
The county's funding will pay for the actual out of pocket expense of manufacturing the sign and shipping it to Key West, plus its installation or your staff could install it. The total expense would be under \$2000. Since Higgs Beach is so large, if you think it would be appropriate to have two signs, one at each end of the beach, and you would be willing to fund it, that would be even better. Thank you for your consideration and please let me know if you require any further information in order to make a decision. I hope to send out the order within the month.

Very truly yours,

A handwritten signature in dark ink, appearing to read "DeeVon Q", with a stylized flourish at the end.

DeeVon Quirolo
Executive Director

The Key West Marine Park is located on the ocean side of the island of Key West, Florida, and extends from Duval Street to the White Street Pier. This public underwater park has been established to enhance protection for the nearshore coral reef ecosystem and to provide for the compatible use by boaters, swimmers, and beach visitors. The park provides a zoned management system by marking three areas for swimming and snorkeling that are closed to motorized vessels. For boaters, there are two access lanes to that motorized craft can access the shoreline of the park without endangering swimmers.



The public can access the Key West Marine Park from four locations: South Beach at the southern end of Duval Street, Dog Beach at the end of Peruvia Street, the Mary and John Spotswood Waterfront Park at the foot of Seminole Street, and Higgs Beach from Reynolds Street to White Street.

These are aerial designed to provide a safe swimming and snorkeling experience without danger from unexpected reefs. They're built so that you can see the maximum safety when in the water of the park. These are excellent areas to learn how to snorkel and become familiar with snorkeling equipment before heading out to the offshore coral reefs. The swim tank off of Bligg's Beach is a good snorkeling area, but please avoid standing on the bottom. A lot is done in marine life

There are two areas designated within the park to provide access and egress to the shoreline for all motorized vessels. When boating, stay well within these lanes when approaching or leaving the shoreline of the park.

The following rules apply to all areas of the Key West Marine Park:

- The Key West Marine Park is a voluntary no take zone; no collecting, removing, injuring, or poisoning any dead or living marine life including coral, live rock, fish, tropical fish, invertebrates, plant, ranch, coral or live rock. No fishing, netting, or spearfishing of marine life. State law prohibits spear fishing within 200 feet of a public beach.
- Don't feed your trash to wildlife! Please dispose of all trash in receptacles. No discharging or depositing trash or other pollutants into the waters of the park.

The park boundaries include the underwater cable from the Western Union line that once provided communications between Key West and Cuba. Do not move, remove, injure, or possess these or other historical resources within the park; they are for everyone to enjoy!

- Please be a good boater: operating a vessel in a manner which endangers life, limb, marine resources or property is prohibited.
- The demarcation buoy provides navigational aids to identify the swim lanes and motorized vessel access lanes. Do not damage or remove them. Report all missing buoys to Reef Relief 303.512.64.3100.

The following activities are prohibited in the swim areas:

- * Operating a motorized vessel within the boundaries of the swim-only areas. Motorized vessels **must** stay within the designated access lanes. Do not operate a vessel propelled or powered by an internal combustion engine within any of the no-motor swim zone areas identified and marked by demarcation buoys.
- * No anchoring within the swim zones; this area is designated for swimmers and snorkelers.

The following activities are prohibited in the motorized vessel access lanes:

- The access lanes are slow speed/no wake areas. Do not operate a vessel at a speed in excess of slow speed within either of the two designated access lanes.
- No overnight mooring or anchoring in the access lanes, which are designed to allow vessels to approach and exit the park.

The Key West Marine Park was made possible through the support of Wynnham Resorts International, the Florida Department of Community Affairs Coastal Restoration Grants with funding from the National Oceanic and Atmospheric Administration.

WYNDHAM RESORTS KEY WEST

BCA Inc.



Range Rover

The Key West Marine Park is operated by the City of Key West in cooperation with **Florida** **Marine** **Conservation** **Foundation**.
A grant was made to the membership organization described in Progress and Process Living Coral Reef
Exposition, by a local firm **Florida** **Marine** **Conservation** **Foundation** for as little as \$20,000.

For information contact City of Key West (305) 254-3721, 515 Anglin St., Key West, Florida 33601
or **Florida Fish and Wildlife Conservation Commission** (305) 291-2168 or write to P.O. Box 140, Key West, FL 33601. www.floridafish.com

Threats

Coral and seagrass now die in the same way they found their way to live and a final death knell is growing to good water quality. If essential to their survival, turbidity, sedimentation and pollution reduce these conditions. *Algal blooms* caused by excess nutrients stem from growing corals and seagrasses, deplete oxygen and inhibit photosynthesis. Poor water quality also promotes coral disease. The harvest of coral and live rock destroys reefs. Rising sea temperatures cause coral bleaching, stressing corals that, except their symbiotic algae. Storms and hurricanes wreak extensive damage. Corals are the canaries in the coal mines for our planet's health.

Overharvesting of fish and other sea life upsets the delicate balance of life and maximum sustainable yields for many species have been exceeded. Destructive fishing techniques damage reef habitat. Anchors dropped on coral, accidental boat groundings, propeller dredging, and divers'errand trips impact from fish tanks, equipment or standing on corals can crush fragile coral polyps. Marine debris, especially plastic and unaccounted line, damages corals and is deadly for birds, fish and turtles that become entangled in it or ingest it. Seagrass die-offs affect fish and other sea life that cannot survive in such conditions. Do your part to protect our coral reef ecosystem.

Looking down a Dock or Exploring with a Hatch and Scooper. You can Spend Memorable Hours gazing at a variety of seashells in the Key West Marine Park.

The Key West Marine Park is part of Florida's coral reef ecosystem and is considered a hard bottom/soft coral community with a variety of hard and soft corals, sponges, and seagrasses. These shallow waters provide a nursery ground and breeding site for numerous fish and wildlife that have migrated to the adjacent coral park. The Key West Marine Park is home to several hard corals such as staghorn, mountain lion and finger corals that have a hard calcareous skeleton and soft corals, such as sea fans, sea whips, and sea rods without skeletons they sway in the ocean currents and filter the water as they live.

Springers are animals that like the water for food and oxygen. They come in many forms such as barrel, vase, ribbon, fish, roper, and mourning and grow from one half inch to over 1 foot. Many can be found in the park. **Blue and White** are members of the same family as yellowish mud crabs. They crabs have tentacles that are extended at night to feed that are usually hidden during the day. Pink **Sope** (common *Macrasteridae*) crabs can be found in the park. **Blue Jarrell** such as *Portunus* **Mar-de-War** are mudcrabs popular to fish. While doing this, it protects that food on the surface. **Porcell**, they are highly toxic and cannot be produced in ponds, lakes and bays. As did any coastal, either in the water or on the shore.

SEAGRASS **SEAGRASS** are flowering members of the *Posidonia* family, the *Posidonia* family, the coral reef associates. Along the coast by trapping sediments, release oxygen into the water and stabilize the ocean bottom with their roots. Many animals such as turbot, mullet, flounder, sea urchin and sea squirts depend on seagrass for food. Seagrass is also used by many other marine life forms, including fish, shrimp and other mollusks. **Common species of seagrass found in Florida** are all flowering in winter/spring. **Widgeon** is all season. This seagrass thrives in meadows and the **QUEEN SEAGRASS** (*Thalassia testudinum*), known for its broad leaves, is found in the Caribbean Sea. **Manatee** is a seagrass that has become known as critical because it provides a food staple. The **Florida horse seagrass** (*Halodule wrightii*) was once abundant in all. Most species of the seagrass family lack roots, although some grow shallow, and include **littoral** and **sublittoral** species. **Seagrass** is found on the offshore reefs and associates in nearshore waters as well. **Seagrass**, once called **manatee**, these decrease of the seagrass is a hard internal structure and the body medulla is broken apart by a series of small, hard, white, cylindrical structures. Seagrass can be fragmented and some species can form a new natural from a severed part. This **Common Sea Star** (*Urechis*) is a common seagrass and is found in the Caribbean Sea. **Seagrass** is a hard internal structure and the body medulla is broken apart by a series of small, hard, white, cylindrical structures. Seagrass can be fragmented and some species can form a new natural from a severed part. This **Common Sea Star** (*Urechis*) is a common seagrass and is found in the Caribbean Sea. **Seagrass** is a hard internal structure and the body medulla is broken apart by a series of small, hard, white, cylindrical structures. Seagrass can be fragmented and some species can form a new natural from a severed part. This **Common Sea Star** (*Urechis*) is a common seagrass and is found in the Caribbean Sea.

[illegible]

Shrimp, lobsters, and crabs
are crustaceans, members of the largest animal phylum, and make
up five parts of five. They all have elaborate exoskeletons, which
they shed by molting, to allow them to grow. In the large, hairy
lobster *Homarus americanus*, the large claws are called chelae, the
smaller claws are called pincers, and the legs are called legs. The
crabs are called crabs, and the shrimp are called shrimp.

Summary of Products and Services

GS Images specializes in the design and production of outdoor interpretive wayside exhibits.

GS Images has long been a preferred exhibit design and production vendor for the U.S. National Park Service. Other Federal agencies—U.S. Forest Service, U.S. Army Corps of Engineers, U.S. Fish & Wildlife Service and U.S. Bureau of Land Management—as well as numerous state, county, municipal and private entities throughout the United States, Canada, Puerto Rico and the Virgin Islands have also chosen to work with GS Images.

Screen imaged, fiberglass embedded exhibits:

For over 20 years GS Images has produced nearly all exhibits through a process combining screen printing and fiberglass embedment, resulting in the finest outdoor signage medium available today. Exhibit production involves the highest quality screen printing on a special paper substrate. The printed paper is then sandwiched between layers of fiberglass and processed in a liquid thermoset polyester resin.

Benefits include:

Vandal resistance - Graphics are subsurface—paint and marking pen graffiti are easily removed with solvent.

Shatterproof - Thrown objects bounce off without damage. Bullets pass through without shattering.

Fire resistance - Snubbed cigarettes will not appreciably mar panel surface. Ignition occurs only with the application of continuous heat in excess of 500 degrees Fahrenheit.

Fade resistance - Color-fast screen printing inks and the combined ultra-violet inhibition of fiberglass and resin resist photodegradation.

Abrasion resistance - The panel surface resists the scratching and abrasion of normal use. Original surface luster is sustained through routine wash and wax maintenance.

Inexpensive replacement - Identical backup paper copies are supplied at no appreciable cost for each exhibit.

These copies can be rolled and stored indefinitely. Should a panel be stolen or sufficiently defaced to require replacement, a paper copy can be embedded at a fraction of the original production cost.

Versatility - GS Images' award-winning screen printing allows unlimited use of color and art, including four-color process for color photographs and full-color artwork, historical black and white photographs as halftone images, and other special effects.

With these benefits, proven through the years, GS Images' screen imaged, fiberglass embedded wayside exhibits are clearly the best value for a lifetime interpretive sign.

Digitally imaged exhibits:

GS Images also offers a digitally imaged indoor/outdoor exhibit panel at a fraction of the cost of screen imaging. These panels can be produced from fully formatted customer-supplied computer files. The graphic file is printed at 400 dpi on electrostatic imaging equipment. The printed image can then be finished through a variety of means including lamination and fiberglass embedment.

Benefits include:

Low cost - Direct disk to image production eliminates costly prepress and screen imaging steps.

Constraint-free design - Cost is not a function of color usage or design complexity, allowing unlimited design freedom without regard for budget constraints.

Quick turnaround - Direct production and in-house finishing services promote short production schedules for projects with tight delivery requirements.

Content evolution - Low cost and limited outdoor warranty encourage an interpretive exhibit strategy which can respond to growth and change.

A response to changing technology, GS Images' digitally imaged exhibits offer a low cost, high profile solution.

Whether you choose screen imaging or digital imaging, GS Images offers a full range of design, illustration and cartographic support. GS Images can also interface with your own creative staff to clarify optimum specification requirements. The better you understand our processes, the more efficiently you can utilize our products and services. Custom framing and display hardware are also available.

GS Images—the complete picture!



355 S. Potomac Street • P.O. Box 1288 • Hagerstown, Maryland 21741-1288
(301) 791-6920 • FAX (301) 733-5379



GS Images Technical Specifications

The signs shall be fiberglass embedded graphic panels mounted in all aluminum painted exhibit frame/structures. The specifications for these items are as follows:

Fiberglass Embedded Graphic Panels

1. The production of these panels consists of screen printing the specified graphics and embedding the printed sheets into a resin/fiberglass composition panel. The vendor must show evidence that the substrate and inks used in the printing are compatible with this process and shall meet the requirements specified herein.
2. All printing must be of the highest quality. Where multiple colors are needed, they shall be in tight register. The images must be consistent in color, opacity, and have sharp, clean edges. For those signs requiring a colored background, the colors must be printed, not sprayed, roller coated or applied in some other fashion. All required copies must be uniform and consistent in color, opacity, registration and quality.
3. The inks used must, in addition, be able to withstand the embedment process and also be able to provide ten years of color integrity in outdoor exposure.
4. Ink colors shall match the specified colors and be opaque and clean.
5. Paper prints need to be a minimum of two (2) inches larger on all sides in order to provide a bleed trim after embedment.
6. The embedment process requires that the printed paper shall be totally embedded in resin along with equal fiberglass loading front and back. This composite shall then be cured under pressure and temperature to yield an intricate panel with flat smooth surfaces on both sides. The composition shall consist of all white glass and clear resin so that when combined and cured the index of refraction shall assure total clarity of the embedded printed graphics.
7. The cured panels shall be trimmed to the specified final sizes.
8. The panels must be resistant to scratching, ink, paint, steam, acids, and aromatics. All ink or paint markings should be readily removeable with soap and water or solvents without harm. The panels shall also be resistant to burning by cigarettes.

All Aluminum Painted Frame/Structures

1. The fabrication of these units shall be as detailed on the supplied drawings and described herein. Use only specified fastening devices and appropriate welding materials. All welds shall be ground smooth. All sharp and ragged edges have to be eased smooth. All raw metal surfaces need to be prepared for painting by sandblasting, and primed following the printed directions of the paint manufacturer.
2. The shapes are aluminum alloy no. 6063-T5. The plate is alloy no. 5052-H2.
3. The prepared surfaces shall be painted with Polane T paint as supplied by Sherwin-Williams. The second coat shall be applied to provide a textured, non-glare pattern. The finish shall be free of runs, sags, and other imperfections. The color shall be consistent from surface to surface. The paint shall be applied under dry, dust-free conditions at temperatures above 50° F. Painting shall be done in a workmanlike manner so as to produce an even film of uniform thickness. Edges, crevices, corners, and joints shall receive special attention to insure that they are thoroughly cleaned and receive an adequate film thickness of paint.
4. The fiberglass embedded panel will be installed in the frames as shown in the drawings to allow removal in the future. The completed assemblies shall be crated in materials and containers to insure they will not be damaged under normal shipping conditions.



355 S. Potomac Street • P.O. Box 1288 • Hagerstown, MD 21741-1288
(301) 791-6920 • FAX (301) 733-5379



OUTDOOR EXHIBITS THAT WON'T LET YOU DOWN...

*fiberglass embedded, high quality
interpretive panels from the experts at
GS Images.*

Since 1976, GS Images has specialized in the design and production of outdoor exhibits. Our experienced staff can help you refine your ideas and turn them into unique "Graphic Solutions" to your visitors' information needs.

Regardless of the type of interpretive message, fiberglass embedded outdoor exhibits have proven to be:

- Design Versatile
- Vandal and Abrasion Resistant
- Fire and Fade Resistant
- Shatterproof
- Inexpensive to Replace

Our full-service art, photomechanical, and screen printing departments can provide a comprehensive range of services which includes:

- ✓ Original Exhibit Layout, Design and Mechanical Preparation
- ✓ Graphic Illustrations and Renderings
- ✓ Full-phase Screen Printing
- ✓ Supervision of the Fiberglass Embedment Process
- ✓ Crating and Shipping

Call or write today for more information and a sample of GS Images' fiberglass embedded exhibits.



GS Images A Division of Advertising Inc.

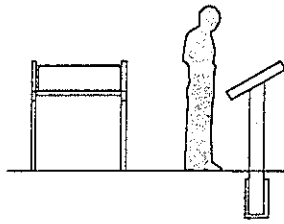
355 South Potomac Street • P.O. Box 1288 • Hagerstown, MD 21741-1288

(301) 791-6920

FAX (301) 733-5379

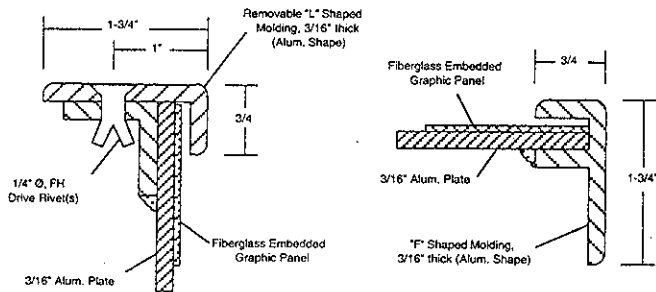
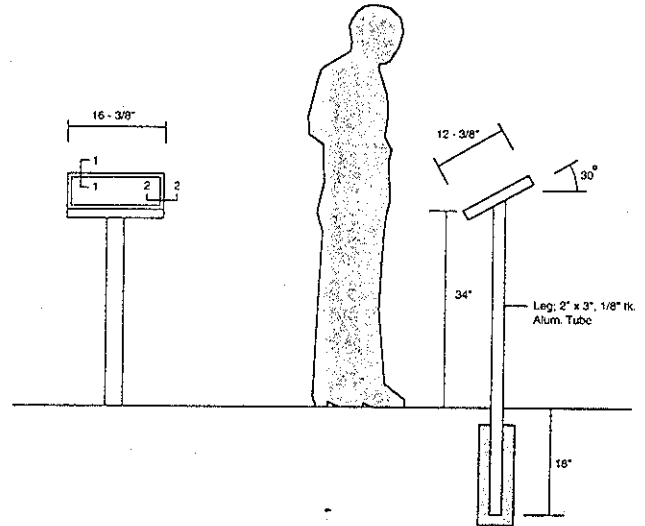
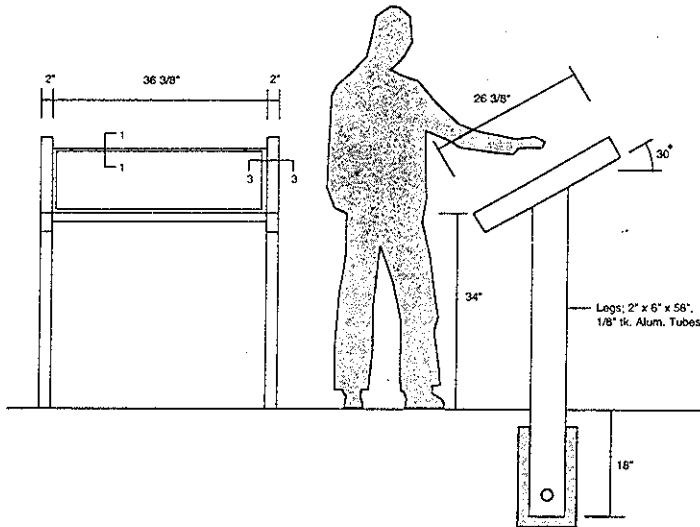
(Rev. 8-90)

© 1990 GS Images, Inc. All rights reserved.

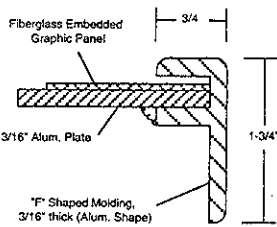


FrameSystems

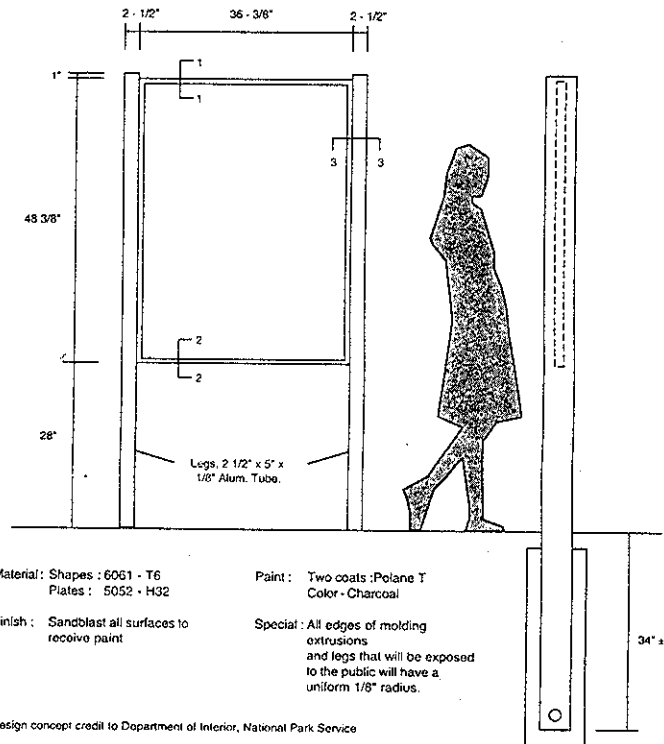
Typical applications of our ALL-ALUMINUM, modular exhibit structure FrameSystems.



SECTION 1-1



SECTION 2-2



Material: Shapes : 6061 - T6
Plates : 5052 - H32

Paint: Two coats: Polane T
Color - Charcoal

Finish: Sandblast all surfaces to receive paint

Special: All edges of molding extrusions and legs that will be exposed to the public will have a uniform 1/8" radius.

Design concept credit to Department of Interior, National Park Service



P.O. Box 1288
Hagerstown, MD 21741

301-791-6920
FAX 301-733-5379

IMAGES
Outdoor Exhibits
A Division of Advertising Inc.



The aluminum "F" shape molding is to be mitered cut and welded to form three sides of the exhibit frame. All visible welded material is to be ground off to give a smooth continuous surface. The removable "L" molding shown in Section 1-1 is for future access to the fiberglass exhibit panel. The ends of this piece are mitered with the adjoining "F" shape molding for a flush, full surface contact joint.